

FORM PTO-1447 (REV. 7-01)	APR 26 2004 PATENT AND TRADEMARK OFFICE	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. E100.12.12	SERIAL NO. 10/646,357
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT Craig N. Hansen and Lonnie J. Helgeson	
			FILING DATE August 22, 2003	GROUP 3764

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

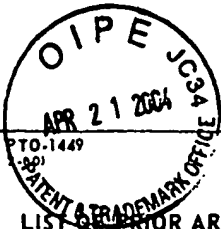
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Nitrogen Washout during Tidal Breathing with Superimposed High-Frequency Chest Wall Oscillation," Am. Review of Respiratory Disease, V. 132(2), August 1985, pp.350-353.
AS	"High Frequency Chest Wall Oscillation in Patients with Chronic Air-Flow Obstruction," Am. Review of Respiratory Disease, V. 132(2), December 1987, pp. 1355-1359.
AT	

EXAMINER <i>And Date</i>	DATE CONSIDERED <i>8/2/6</i>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 2

FORM PTO-1449 (REV. 1-89)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. E100.12.12	SERIAL NO. 10/646,357
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT CRAIG N. HANSEN and	LONNIE J. HELGESON
		FILING DATE August 22, 2003	GROUP 3764

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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							YES	NO
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	AR	"High-Frequency Chest Wall Oscillation," Chest, February 1986, pp. 218-223
Q	AS	"Effect of Chest Wall Oscillation on Mucus Clearance: Comparision of Two Vibrators," Pediatric Pulmonology, March 1989, pp. 122-126
Q	AT	"The Long-Term Effect of High-Frequency Chest Compression Therapy on Pulmonary Complications of Cystic Fibrosis," Pediatric Pulmonology, November 1991, pp. 265-271

EXAMINER

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FORM PTO-1449  
(REV. 7-90)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

E100.12.12

SERIAL NO.

10/646,357

**LIST OF PRIOR ART CITED BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

CRAIG N. HANSEN and

LONNIE J. HELGESON

FILING DATE

August 22, 2003

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**U.S. PATENT DOCUMENTS**

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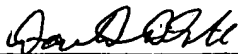
**FOREIGN PATENT DOCUMENTS**

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**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AR	"Effects of high frequency chest compression on respiratory systems mechanics in normal subjects and cystic fibrosis patients," Canadian Respiratory Journal, March 1995, pp. 40-46.
	AS	
	AT	

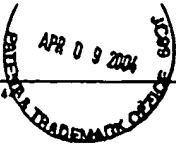
EXAMINER



DATE CONSIDERED

8/2/6

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FORM PTO-14  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

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10/646,357

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Craig N. Hansen and Lonnie J. Helgeson

FILING DATE

August 22, 2003

GROUP

3764

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	Des. 379,396	05/20/1997	Pongo et al			
	AB	Des. 456,591	05/07/2002	Hansen			
	AC	Des. 461,397	08/20/2002	Hansen et al			
	AD	Des. 469,376	02/04/2003	Hansen et al			
	AE	2,223,570	12/03/1940	McMillin			
	AF	2,354,397	07/25/1944	Miller			
	AG	2,588,192	03/04/1952	Akerman et al			
	AH	2,707,948	05/10/1955	Emerson			
	AI	2,762,366	09/11/1956	Huxley III et al			
	AJ	2,779,329	01/29/1957	Huxley III et al			
DA	AK	2,780,222	02/05/1957	Polzin et al			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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al	AL	1,225,880	09/1987	Canada				
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DA	AR	"Chronic bronchial asthma and emphysema," Geriatrics, June 1996,
		pp. 139-158
DA	AS	"Enhanced Tracheal Mucus Clearance with High Frequency Chest
		Wall Compression," Respiratory Disease, Sept. 1983, pp. 511-515
al	AT	"Peripheral mucociliary clearance with high-frequency chest wall
		compression," Journal of Applied Physiology, April 1985, pp.

EXAMINER

DATE CONSIDERED

1157-1163

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FORM PTO-1449 (REV. 7-01)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646.357	
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>				APPLICANT Craig N. Hansen and Lonnie J. Helgeson			
				FILING DATE August 22, 2003		GROUP 3764	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	2,869,537	01/20/1959	Chu				
AB	2,899,955	08/19/1959	Huxley III et al				
AC	3,043,292	07/10/1962	Mendelson				
AD	3,063,444	11/13/1962	Jobst				
AE	3,078,842	02/26/1963	Gray				
AF	3,120,228	02/04/1964	Huxley III				
AG	3,179,106	04/20/1965	Meredith				
AH	3,310,050	03/21/1967	Goldfarb				
AI	3,545,017	12/08/1970	Cohn				
AJ	3,566,962	03/02/1971	Schuh				
AK	3,577,977	05/11/1971	Ritzinger Jr et al				
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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<b>OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
AR	"Tracheal mucus clearance in high-frequency oscillation: effect of peak flow rate bias," The European Respiratory Journal,						
AS	January 1990, pp. 6-13						
AT	"High-frequency Chest Compression System to Aid in Clearance of Mucus from the Lung," Biomedical Instrumentation & Technology,						
EXAMINER				DATE CONSIDERED July 1990, pp. 289-294.			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AD	AA	3,633,655	08/15/1972	White et al			
	AB	3,760,901	09/25/1973	Borgeas			
	AC	3,993,053	11/23/1976	Grossan			
	AD	4,004,579	01/25/1977	Dedo			
	AE	4,120,297	10/17/1978	Rabischong et al			
	AF	4,135,503	01/23/1979	Romano			
	AG	4,178,922	12/18/1979	Curlee			
	AH	4,186,732	02/05/1980	Christoffel			
	AI	4,375,217	03/01/1983	Arkans			
	AJ	4,402,312	09/06/1983	Villari et al			
	AK	4,424,906	01/10/1984	Newman et al			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AD	AR	"Preliminary Evaluation of High-Frequency Chest Compression for Secretion Clearance in Mechanically Ventilated Patients,"					
	AS	Respiratory Care, October 1993, pp. 1091-1097.					
AD	AT	"Artificial Ventilation," Technion Institute of Technology Faculty of Medicine, date unknown.					
EXAMINER				DATE CONSIDERED			
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,523,579	06/18/1985	Barry			
AB	4,577,626	03/25/1986	Marukawa et al			
AC	4,590,925	05/27/1986	Dillon			
AD	4,621,621	11/11/1986	Marsalis			
AE	4,637,074	01/20/1987	Taheri			
AF	4,676,232	06/30/1987	Olsson et al			
AG	4,682,588	07/28/1987	Curlee			
AH	4,815,452	03/28/1989	Hayek			
AI	4,838,263	06/13/1989	Warwick et al			
AJ	4,840,167	06/20/1989	Olsson et al			
AK	4,928,674	05/20/1990	Halperin et al			

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<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use several sheets if necessary)		APPLICANT Craig N. Hansen and Lonnie J. Helsing	
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,930,498	06/05/1990	Hayek			
AB	4,952,095	08/23/1990	Walters			
AC	4,977,839	12/18/1990	Budd			
AD	5,007,412	04/16/1991	DeWall			
AE	5,055,052	10/03/1991	Johnsen			
AF	5,056,505	10/15/1991	Warwick et al			
AG	5,222,478	06/29/1993	Scarberry et al			
AH	5,235,967	08/17/1993	Arbisi et al			
AI	5,245,990	09/21/1993	Bertinin			
AJ	5,370,603	12/06/1994	Newman			
AK	5,453,081	09/26/1995	Hansen			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS FILING DATE IF APPROPRIATE
<i>AR</i>	AA	5,490,820	02/13/1996	Schock et al		
	AB	5,494,469	02/27/1996	Heath et al		
	AC	5,569,170	10/20/1996	Hansen		
	AD	5,674,269	10/07/1997	Augustine		
	AE	5,769,797	06/23/1998	Van Brunt et al		
	AF	5,769,800	06/23/1998	Gelfand et al		
	AG	5,938,627	08/17/1999	Hickman		
	AH	6,036,662	03/14/2000	Van Brunt et al		
	AI	6,155,996	12/05/2000	Van Brunt et al		
	AJ	6,254,556	07/03/2001	Hansen et al		
<i>AK</i>	AK	6,379,316	04/30/2002	Van Brunt et al		

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E190.12.12		SERIAL NO. 10/646,357	
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>				APPLICANT Craig M. Hansen and Lonnie J. Helgeson			
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DD	AA 6,471,663	10/29/2002	Van Brunt et al				
DD	AB 6,488,641	12/03/2002	Hansen				
DD	AC 6,547,749	04/15/2003	Hansen				
DD	AD 6,605,050	08/12/2003	Hansen				
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EXAMINER <i>DD/DDP/PL</i>				DATE CONSIDERED <i>8/16</i>			
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